



TECHNICAL DATA SHEET

**MICROSPERSION®**

**MICROSPERSIONS** are unique dispersions of our finely micronized waxes designed for ease of incorporation and optimum performance efficiency. **MICROSPERSIONS** can be added to any part of the formula. The waxes have been dispersed into a grade of isohexadecane with a high degree of purity. The isohexadecane is 97% by weight C<sub>16</sub> and is highly hydrophobic and non-polar which will enhance water resistant properties. MPI's most popular grades for personal care applications have been incorporated into the **MICROSPERSION** grades so that the formulator can use highly efficient micronized waxes in a pourable "stir in" liquid form.

**MICROSPERSION 220PC:** Finely micronized high molecular weight PE that provides a creamy feel.

**MICROSPERSION 419PC:** Combination of PE and PTFE. Provides the creamy feel of PE with the silky feel of PTFE.

**MICROSPERSION 511PC:** Provides a smooth matte finish.

**MICROSPERSION 519PC:** Imparts a silky feel and reduces the oily feel associated with creams and lotions.

PROPERTIES	TEST METHOD	MICROSPERSION®			
		220PC	419PC	511PC	519PC
Composition (INCI Name)	IR	Polyethylene Isohexadecane	Polyethylene PTFE Isohexadecane	Polypropylene Isohexadecane Polyethylene	PTFE Isohexadecane Polyethylene
CAS No(s).		9002-88-4 4390-04-9	9002-88-4 9002-84-0 4390-04-9	9003-07-0 4390-04-9 9002-88-4	9002-84-0 4390-04-9 9002-88-4
Appearance		Milky Liquid	Milky Liquid	Milky Liquid	Milky Liquid
Odor		Odorless	Odorless	Odorless	Odorless
Wax Solids		49.0% ± 0.5%	49.0% ± 0.5%	44.0% ± 0.5%	46.0% ± 0.5%
Viscosity@25°C (cps)		600 ± 200	650 ± 200	1300 ± 200	700 ± 200
Density@25°C (g/cc)		0.87	0.89	0.84	1.07
Particle Size Analysis (Microtrac) Mean Particle Size (microns)	ASTM D 4464	7.0-9.0	9.0-11.0	8.0-12.0	5.0-6.0
<b>REGULATORY INFORMATION</b>					
EINECS No(s).		200-815-3 224-506-8	200-815-3 204-126-9 224-506-8	N/A 224-506-8 200-815-3	204-126-9 224-506-8 200-815-3
TSCA Registered					
Heavy Metals: Pb < 2.0 ppm As < 2.0 ppm		Conforms to CONEG Regulations			

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